lab.R

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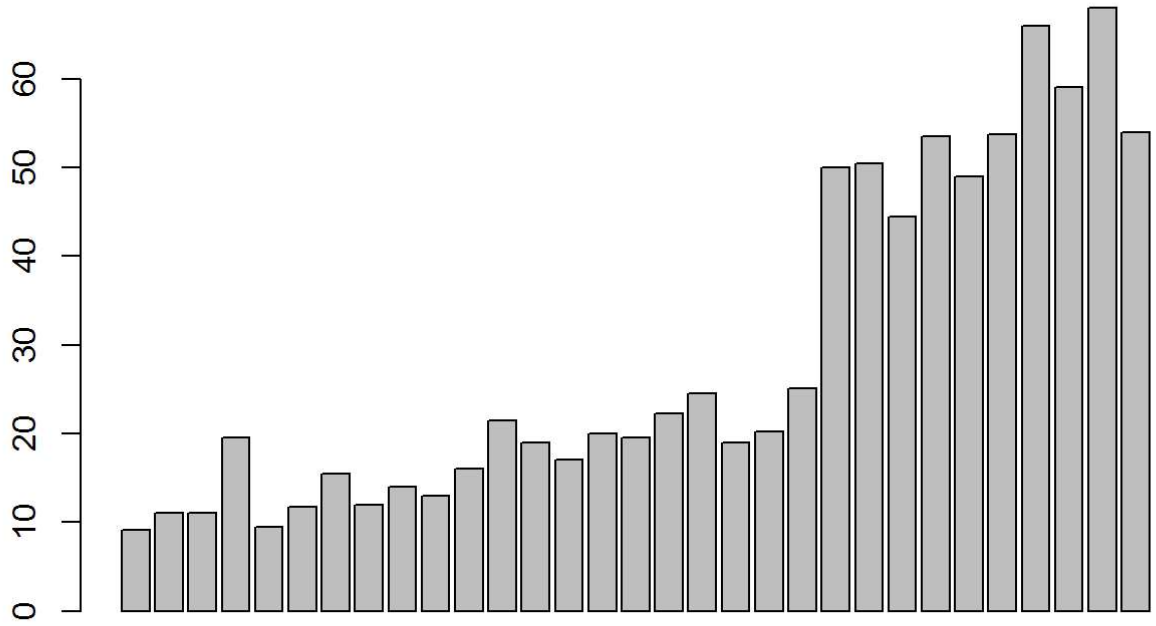
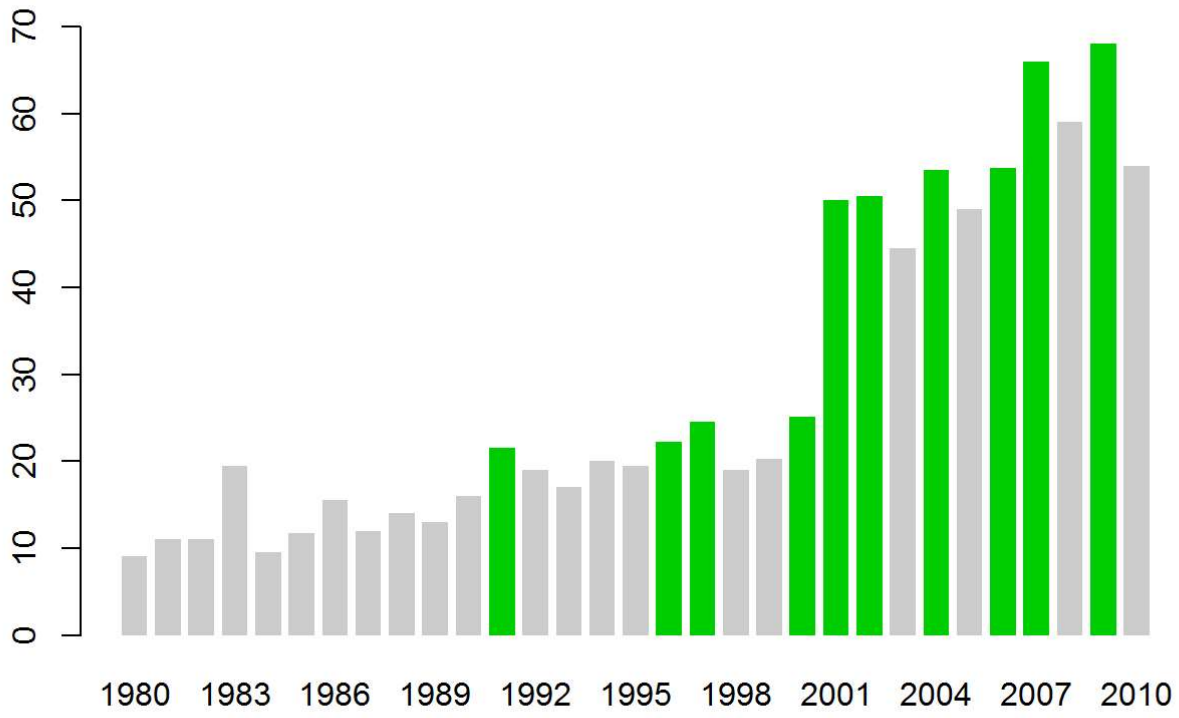
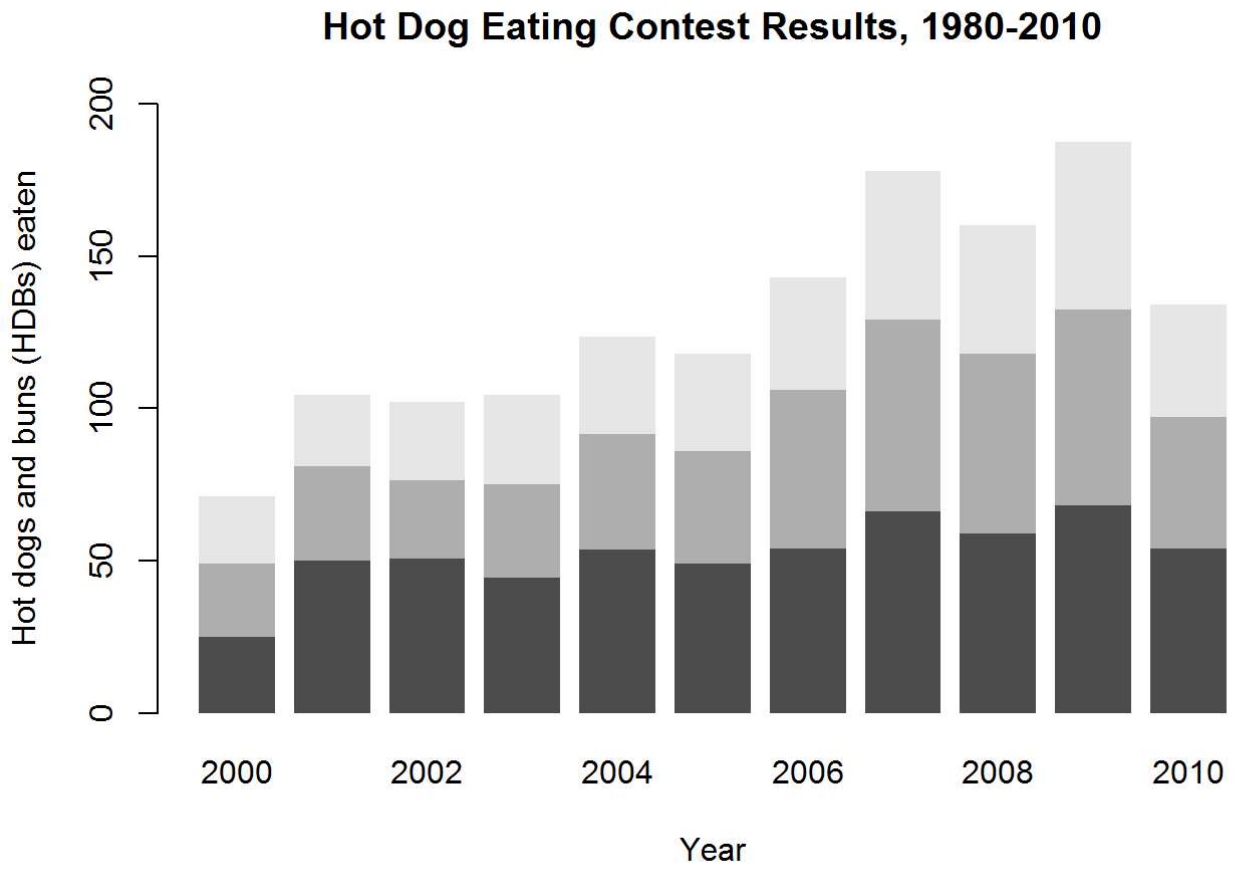
```
#plot1

hotdogs <-
read.csv( "http://datasets.flowingdata.com/hot-dog-contest-winners.csv",
           sep=",", header=TRUE)


barplot(hotdogs$Dogs.eaten)
```



```
fill_colors <- c()
for ( i in 1:length(hotdogs$New.record) ) {
  if (hotdogs$New.record[i] == 1) {
    fill_colors <- c(fill_colors, "green3")
  } else {
    fill_colors <- c(fill_colors, "#cccccc")
  }
}

barplot(hotdogs$Dogs.eaten, names.arg=hotdogs$Year, col=fill_colors,
        border=NA, space=0.3,ylim=c(0,70))
```



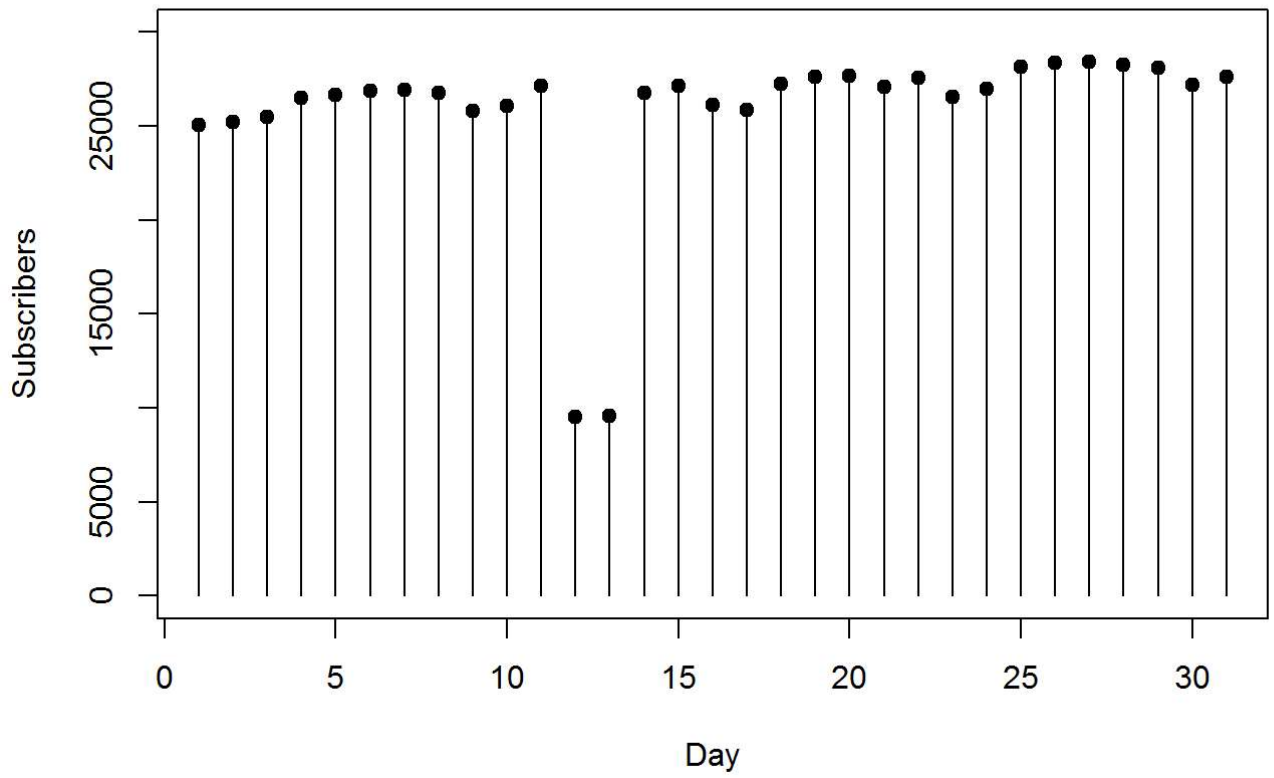
```
#plot 2

hot_dog_places = read.csv("http://datasets.flowingdata.com/hot-dog-places.csv",
                          sep=",", header=TRUE, stringsAsFactors = FALSE)

names(hot_dog_places) <-
  c("2000", "2001", "2002", "2003", "2004",
    "2005", "2006", "2007", "2008", "2009", "2010")


hot_dog_matrix <- as.matrix(hot_dog_places)

barplot(hot_dog_matrix, border=NA, space=0.25, ylim=c(0, 200),
        xlab="Year", ylab="Hot dogs and buns (HDBs) eaten",
        main="Hot Dog Eating Contest Results, 1980-2010")
```



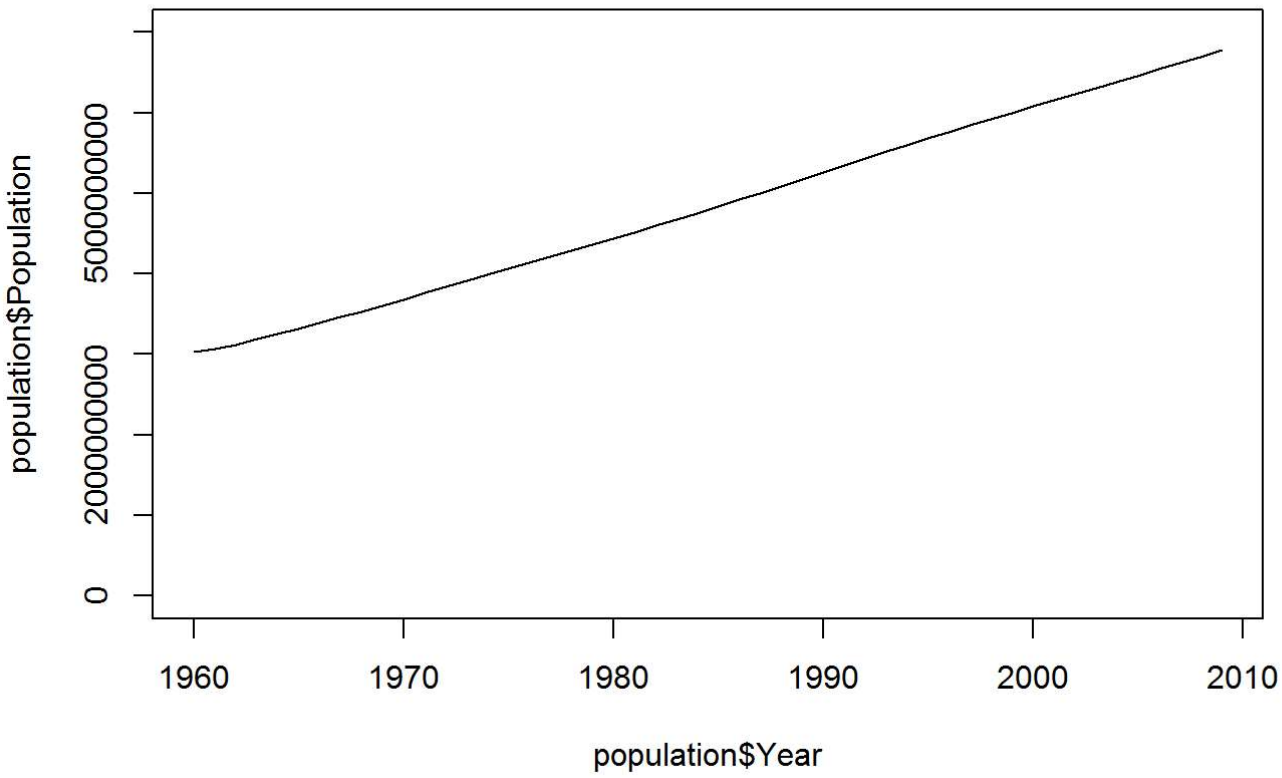

```
#plot 3


subscribers <-read.csv("http://datasets.flowingdata.com/flowingdata_subscribers.csv",sep=",", he
ader=TRUE,stringsAsFactors = FALSE)

subscribers
```

```
##          Date Subscribers Reach Item.Views  Hits
## 1  01-01-2010       25047  4627       9682 27225
## 2  01-02-2010       25204  1676       5434 28042
## 3  01-03-2010       25491  1485       6318 29824
## 4  01-04-2010       26503  6290      17238 48911
## 5  01-05-2010       26654  6544      16224 45521
## 6  01-06-2010       26851  6574      16717 43071
## 7  01-07-2010       26899  8026      22485 37825
## 8  01-08-2010       26791  6235      17706 41712
## 9  01-09-2010       25783  1626       6928 29823
## 10 01-10-2010       26093  1440       6374 31816
## 11 01-11-2010       27153  7204      17633 47007
## 12 01-12-2010        9495  7383      18405 44242
## 13 01-13-2010        9546  6672      17209 39722
## 14 01-14-2010       26756  7313      19343 38598
## 15 01-15-2010       27133  6287      18488 35961
## 16 01-16-2010       26124  1666       6377 31445
## 17 01-17-2010       25874  1728       6155 33733
## 18 01-18-2010       27245  6283      16287 38239
## 19 01-19-2010       27595  7585      19709 40198
## 20 01-20-2010       27667  8180      25778 45718
## 21 01-21-2010       27098  6889      20924 39998
## 22 01-22-2010       27592  8068      24207 38831
## 23 01-23-2010       26525  2760       9073 38339
## 24 01-24-2010       26974  2272       9251 40491
## 25 01-25-2010       28171  8885      23076 54885
## 26 01-26-2010       28357  8047      21261 41371
## 27 01-27-2010       28400  7683      19367 52517
## 28 01-28-2010       28267  8471      25166 52350
## 29 01-29-2010       28104  7725      19812 43748
## 30 01-30-2010       27175  2206          0 34352
## 31 01-31-2010       27611  6317      15620 44449
```

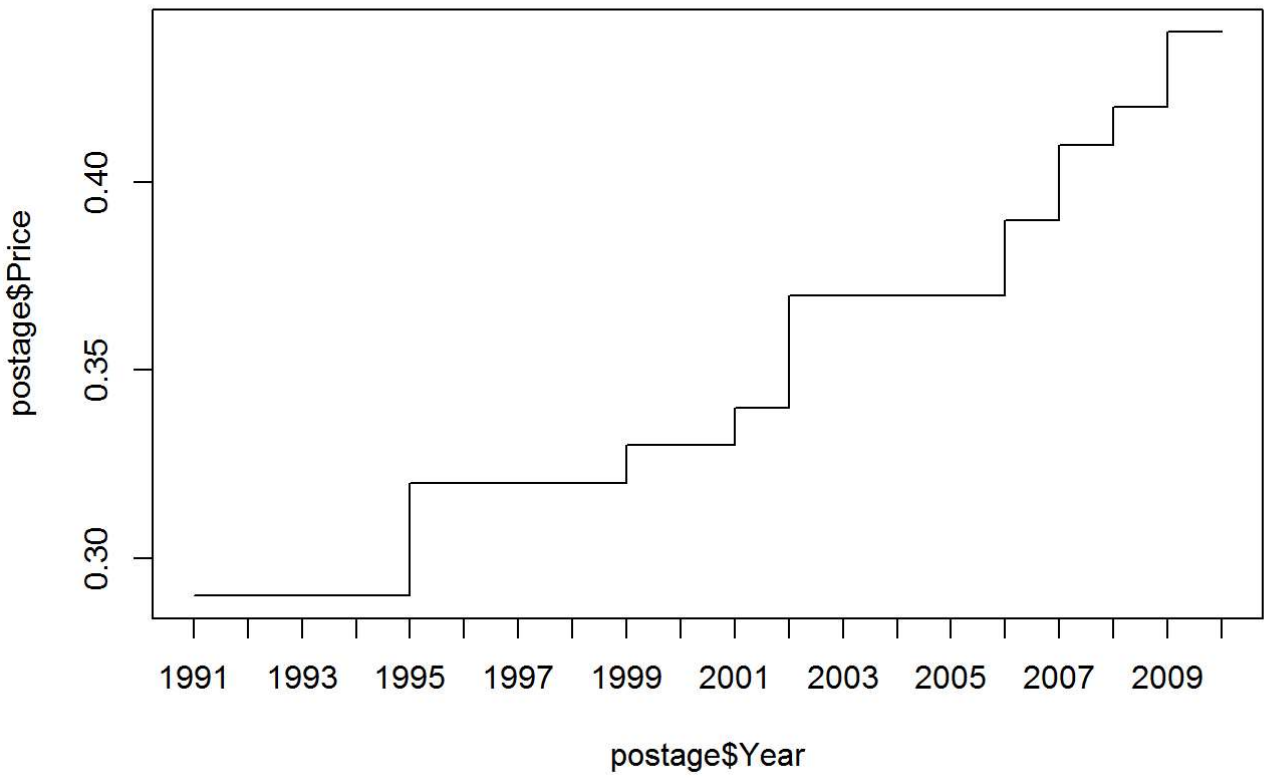
```
plot(subscribers$Subscribers, type="h", ylim=c(0, 30000),
     xlab="Day", ylab="Subscribers")
points(subscribers$Subscribers, pch=19, col="black")
```




```
#plot 4

options(scipen = 999)
population <- read.csv("http://datasets.flowingdata.com/world-population.csv", sep=",", header=T
RUE)
plot(population$Year, population$Population, type="l",
     ylim=c(0, 7000000000))
```



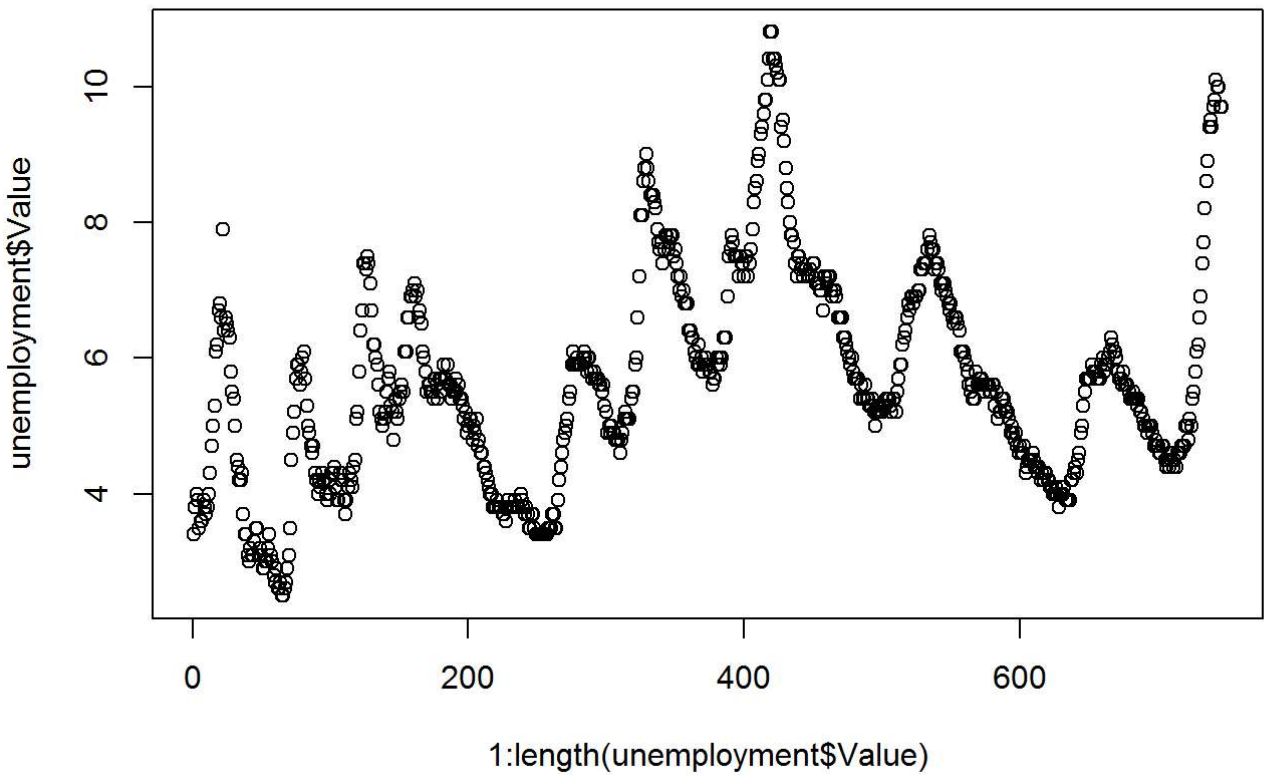

```
#plot5



postage <- read.csv("http://datasets.flowingdata.com/us-postage.csv", sep=",", header=TRUE)

View(postage)

plot(postage$Year, postage$Price, type="s",xaxt="n")
axis(1, at = seq(1991,2010,1))
```



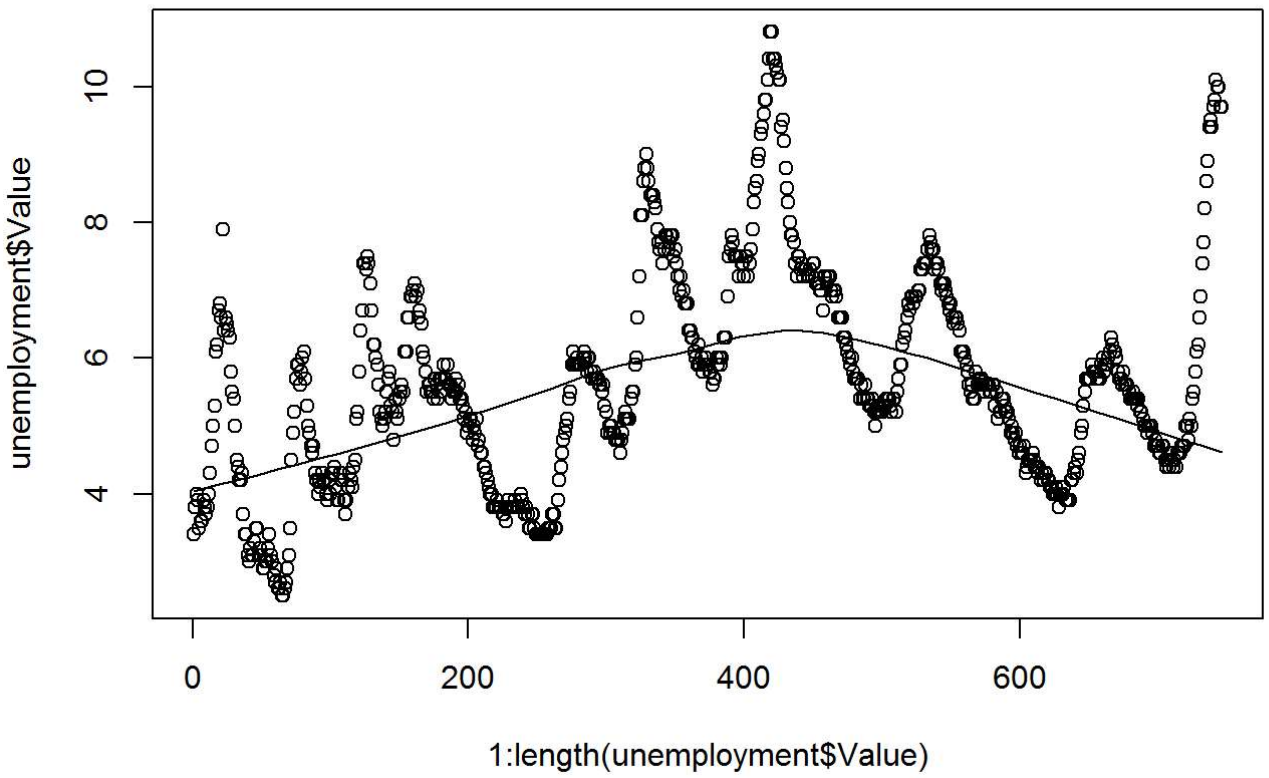

```
#Plot 6

unemployment <- read.csv("http://datasets.flowingdata.com/unemployment-rate-1948-2010.csv",
sep=',')
unemployment[1:10,]
```

```
##      Series.id Year Period Value
## 1  LNS14000000 1948    M01   3.4
## 2  LNS14000000 1948    M02   3.8
## 3  LNS14000000 1948    M03   4.0
## 4  LNS14000000 1948    M04   3.9
## 5  LNS14000000 1948    M05   3.5
## 6  LNS14000000 1948    M06   3.6
## 7  LNS14000000 1948    M07   3.6
## 8  LNS14000000 1948    M08   3.9
## 9  LNS14000000 1948    M09   3.8
## 10 LNS14000000 1948    M10   3.7
```

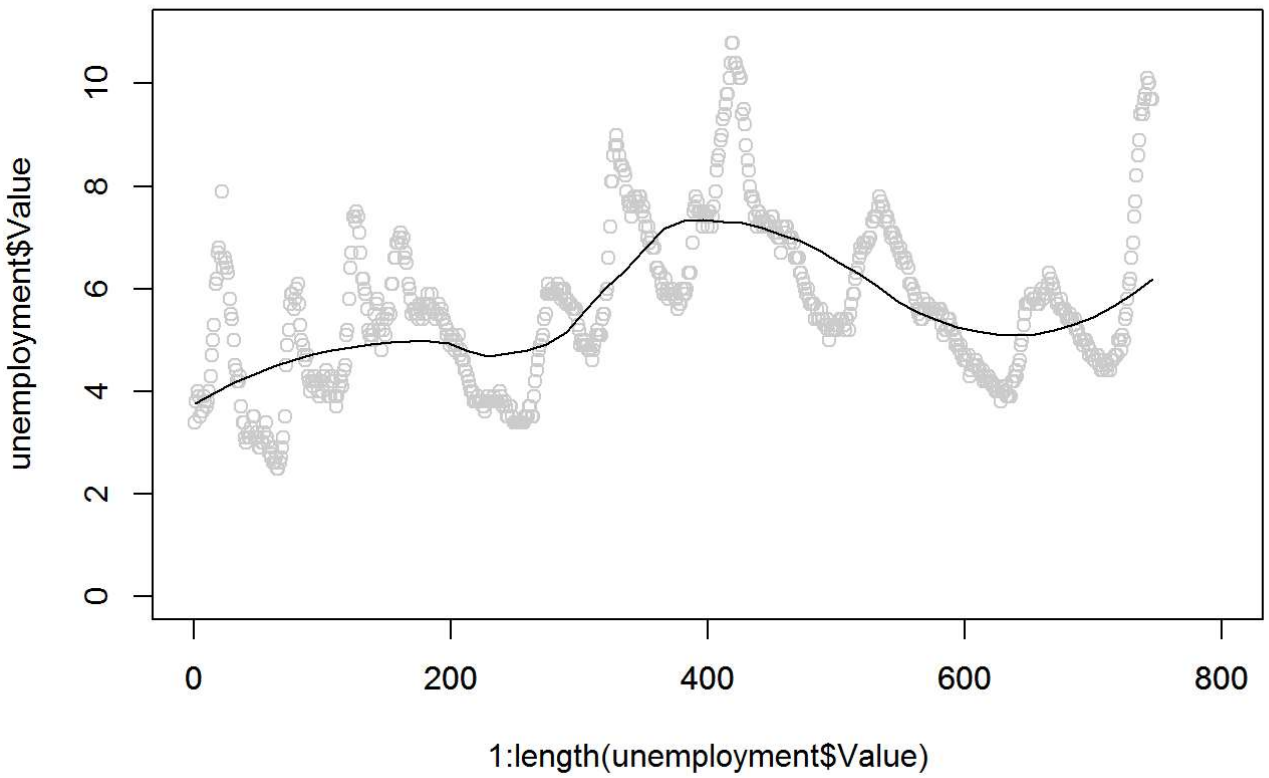
```
plot(1:length(unemployment$Value), unemployment$Value)
```




```
scatter.smooth(x=1:length(unemployment$Value), y=unemployment$Value)
```




```
scatter.smooth(x=1:length(unemployment$Value),
               y=unemployment$Value, xlim=c(0,800),ylim=c(0,11), degree=2, col="#CCCCCC",
span=0.5)


axis(1,at=seq(0,800,200))
```


unemployment$Value
0
2
4
6
8
10
0
200
400
600
800
1:length(unemployment$Value)